

2007-08 ENGINE**Exhaust System - Repair Instructions - X5 (6-Cylinder)****00 EXHAUST SYSTEM, COMPLETE****18 00 020 REMOVING AND INSTALLING COMPLETE EXHAUST SYSTEM (N52K)**

Special tools required:

- 31 2 220 31 2 220 SUPPORT PLATE

WARNING: Scalding hazard!

Only perform this work after engine has cooled down.

Danger of injury!

Removal of the exhaust system must be carried out with the assistance of a second person.

Support exhaust system with special tool 31 2 22 31 2 220 SUPPORT PLATE .

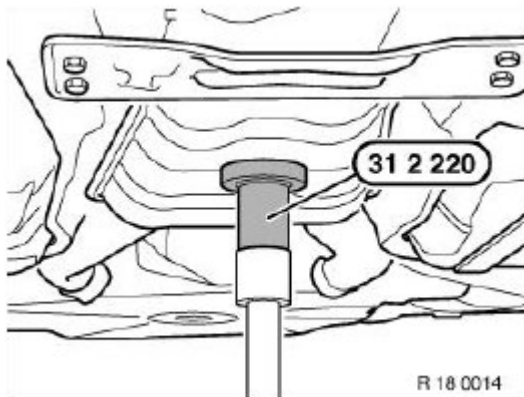


Fig. 1: Identifying Special Tool (31 2 220)

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: **Texts refer to and illustrations show the left side. The procedure is identical for the right side.**

Unfasten screw connection.

Slacken ball band clamp (1) from exhaust pipe.

Installation:

- Replace ball band clamps.
- Apply a thin coating of copper past to contact surface between ball and socket.
- When tightening down ball band clamps, press exhaust system against both manifold flanges in order to achieve gap-free installation.

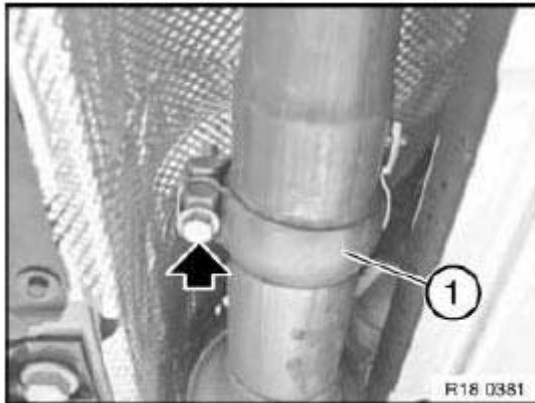


Fig. 2: Locating Screw

Courtesy of BMW OF NORTH AMERICA, INC.

- Install ball band clamp at right angles to exhaust pipe.
- Tightening torque 18 31 1AZ, see **18 31 EXHAUST SYSTEM** .

Release screws and remove holder (1).

Tightening torque 18 20 1AZ, see **18 20 EXHAUST SYSTEM SUSPENSION** .

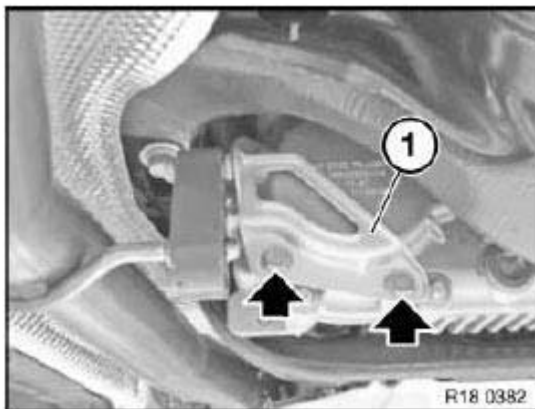


Fig. 3: Locating Screws

Courtesy of BMW OF NORTH AMERICA, INC.

Release screws and remove holder (1).

Tightening torque 18 20 1AZ, see **18 20 EXHAUST SYSTEM SUSPENSION** .

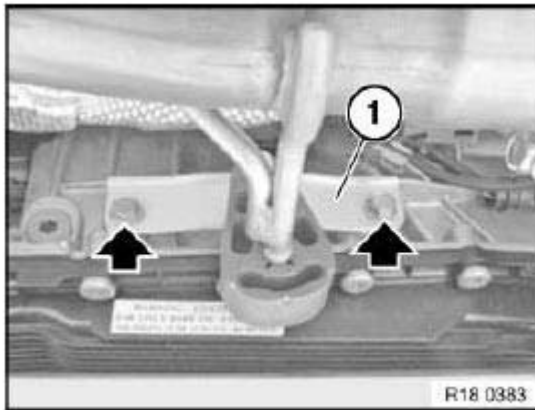


Fig. 4: Identifying Holder

Courtesy of BMW OF NORTH AMERICA, INC.

Release screws and remove holder (1).

Tightening torque 18 20 2AZ, see 18 20 EXHAUST SYSTEM SUSPENSION .

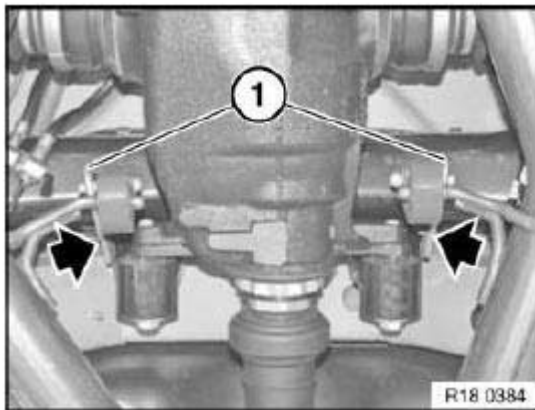


Fig. 5: Locating Screws

Courtesy of BMW OF NORTH AMERICA, INC.

Release screws and remove holder (1).

Tightening torque 18 20 3AZ, see 18 20 EXHAUST SYSTEM SUSPENSION .

NOTE: Texts refer to and illustrations show the left side. The procedure is identical for the right side.

Lower and remove exhaust system with assistance of a second person.

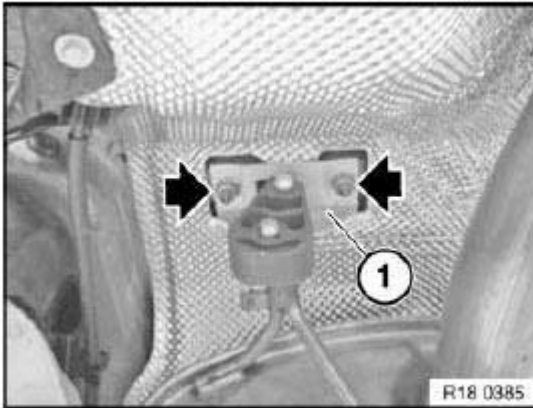


Fig. 6: Locating Screws

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Align both tail pipes (1) of rear muffler in each case centrally to openings in rear apron.

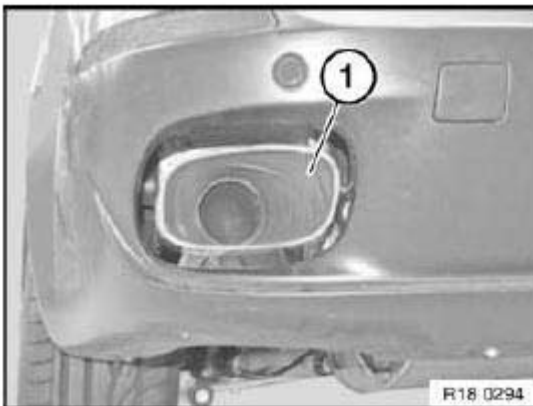


Fig. 7: Identifying Tail Pipes

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Check rubber mount for damage, replace if necessary.

Check exhaust system for leaks.

18 32 081 REPLACING EXHAUST PIPE WITH CATALYTIC CONVERTER, CYL. 1-3 (N52K)

Special tools required:

- 00 2 210 00 2 210 EXHAUST PIPE CUTTER

WARNING: Scalding hazard! These tasks should only be carried out on an exhaust system that has cooled down.

NOTE: If the cutting line is not marked by a punch mark in the pipe, determine the cutting line by means of the pipe length on the new exhaust pipe with catalytic converter (2). Carry over cutting line to faulty exhaust pipe with catalytic converter (2) and mark out.

Cut exhaust pipe at marked point with special tool 00 2 210 **00 2 210 EXHAUST PIPE CUTTER** and deburr.

Release bolt and remove bracket (1). Tightening torque 18 20 1AZ. **18 20 EXHAUST SYSTEM SUSPENSION**

Support exhaust system.

Release nuts and remove exhaust pipe.

Installation:

- Replace self-locking nuts.
- Replace seals.
- Tightening torque 18 31 2AZ, see **18 31 EXHAUST SYSTEM**

Installation:

Connect exhaust pipe to centre muffler by means of clamp and align.

Centre clamp and tighten down.

Tightening torque 18 20 5AZ, see **18 20 EXHAUST SYSTEM SUSPENSION**

Installation:

Check rubber mount for damage, replace if necessary.

Check exhaust system for leaks.

18 32 082 REPLACING EXHAUST PIPE WITH CATALYTIC CONVERTER, CYL. 4-6 (N52K)

Special tools required:

- 00 2 210 **00 2 210 EXHAUST PIPE CUTTER**

WARNING: Scalding hazard! These tasks should only be carried out on an exhaust system that has cooled down.

NOTE: If the cutting line is not marked by a punch mark in the pipe, determine the cutting line by means of the pipe length on the new exhaust pipe with catalytic converter (1). Carry over cutting line to faulty exhaust pipe with catalytic converter (1) and mark out.

Cut exhaust pipe at marked point with special tool 00 2 210 **00 2 210 EXHAUST PIPE CUTTER** and deburr.

Release nuts and remove exhaust pipe.

Installation:

- Replace self-locking nuts.
- Replace seals.
- Tightening torque 18 31 2AZ, see **18 31 EXHAUST SYSTEM**

Installation:

Connect exhaust pipe to centre muffler by means of clamp and align.

Centre clamp and tighten down.

Tightening torque 18 20 5AZ, see **18 20 EXHAUST SYSTEM SUSPENSION**

Installation:

Check exhaust system for leaks.

12 MUFFLERS, PETROL

18 10 031 REPLACING REAR MUFFLER (N52K)

Special tools required:

- 00 2 210 **00 2 210 EXHAUST PIPE CUTTER**
- 31 2 220 **31 2 220 SUPPORT PLATE**

WARNING: Scalding hazard!

Only perform these tasks after exhaust system has cooled down.

Support exhaust system with special tool 31 2 220 **31 2 220 SUPPORT PLATE** .

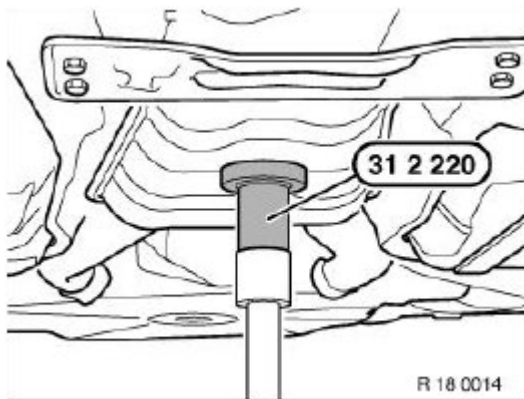


Fig. 8: Identifying Special Tool (31 2 220)

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: If the cutting lines are not identified by notches in the pipes, they must be determined by means of the pipe lengths on the new rear muffler (2). Carry over cutting lines to faulty rear muffler (2) and mark out.

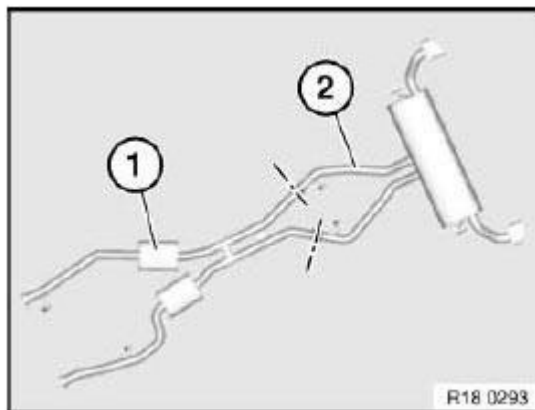


Fig. 9: Identifying Mark On Front Muffler

Courtesy of BMW OF NORTH AMERICA, INC.

Cut both exhaust pipes at marked points with special tool 00 2 210 **00 2 210 EXHAUST PIPE CUTTER** and deburr.

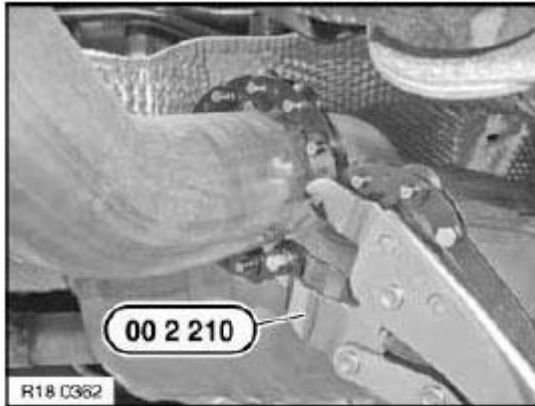


Fig. 10: Identifying Special Tool (00 2 210)

Courtesy of BMW OF NORTH AMERICA, INC.

Secure exhaust system against falling off.

Release screws and remove holder (1).

Tightening torque 18 20 2AZ **18 20 EXHAUST SYSTEM SUSPENSION** .

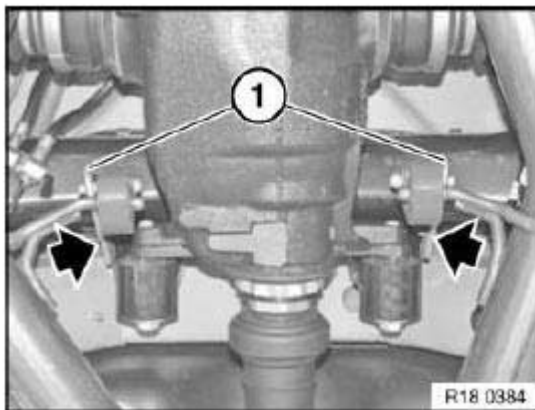


Fig. 11: Locating Screws

Courtesy of BMW OF NORTH AMERICA, INC.

Release screws and remove holder (1).

Tightening torque 18 20 3AZ **18 20 EXHAUST SYSTEM SUSPENSION** .

NOTE: Texts refer to and illustrations show the left side. The procedure is identical for the right side.

Lower and remove exhaust system with assistance of a second person.

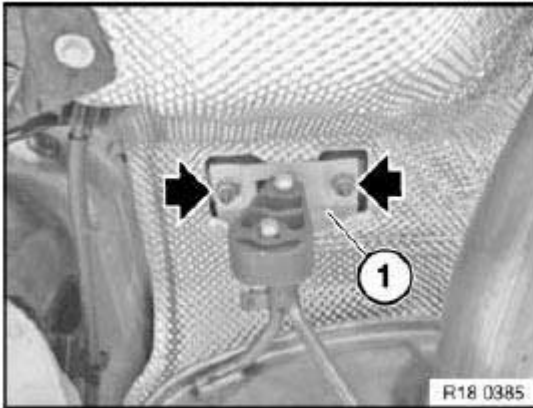


Fig. 12: Locating Screws

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Connect front muffler to rear muffler by means of clamps and align.

Centre clamps and tighten down.

Tightening torque 18 20 5AZ **18 20 EXHAUST SYSTEM SUSPENSION** .



Fig. 13: Tightening Centre Clamps

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Align both tail pipes (1) of rear muffler in each case centrally to openings in rear apron.

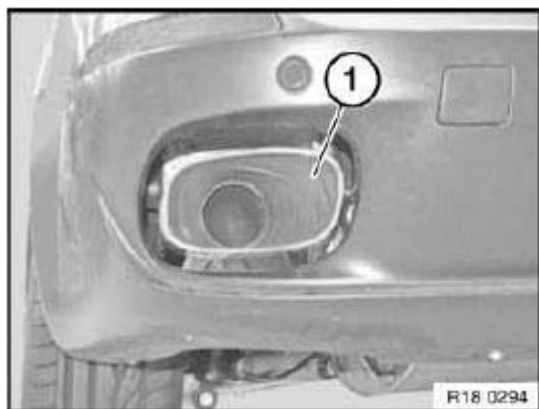


Fig. 14: Identifying Tail Pipes

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Check rubber mount for damage and replace if necessary.
Check exhaust system for leaks.

18 12 050 REPLACING CENTRE MUFFLER (N52K)

Special tools required:

- 00 2 210 00 2 210 EXHAUST PIPE CUTTER

WARNING: Scalding hazard! These tasks should only be carried out on an exhaust system that has cooled down.

NOTE: If the cutting line is not marked by a punch mark in the pipe, determine the cutting line by means of the pipe length on the new centre muffler (3). Carry over cutting line to faulty centre muffler (3) and mark out.

Secure centre muffler against falling off.

Cut exhaust pipes at marked points with special tool 00 2 210 00 2 210 EXHAUST PIPE CUTTER and deburr.

Remove centre muffler.

Installation:

Adjust centre muffler to fit and connect with clamps.

Centre clamp and tighten down.

Installation:

Adjust centre muffler to fit so that both tail pipes (1) of rear muffler are centrally situated in openings in rear apron.

NOTE: Check exhaust system for leaks.

40 EXHAUST MANIFOLD

18 40 050 REMOVING AND INSTALLING/REPLACING FRONT EXHAUST MANIFOLD (N52K)

Necessary preliminary tasks:

- Remove rear exhaust manifold. 18 40 060 Removing and Installing/Replacing Rear Exhaust Manifold (N52K)

NOTE: The oxygen sensors are in danger of being damaged when the exhaust manifolds are removed and installed.

Remove control sensor, see 78 EMISSION CONTROL, OXYGEN from cylinders 1 to 3

Remove monitor sensor from cylinders 1 to 3

Unscrew nuts.

Remove exhaust manifold (1).

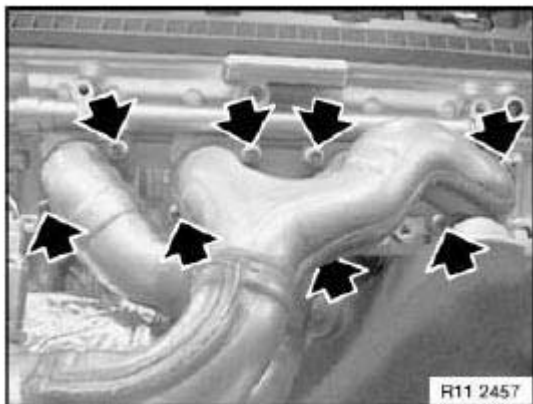


Fig. 15: Locating Nuts

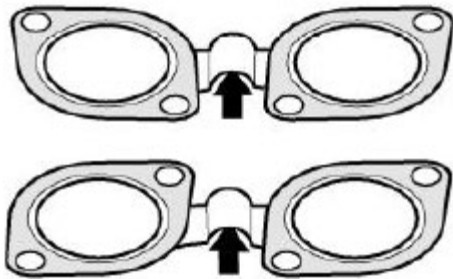
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Clean sealing faces and replace seals.

Replace nuts.

Tightening torque, 18 40 1AZ, see **18 40 EXHAUST SYSTEM SUSPENSION** .



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Fig. 16: Locating Seal Beads

Courtesy of BMW OF NORTH AMERICA, INC.

18 40 060 REMOVING AND INSTALLING/REPLACING REAR EXHAUST MANIFOLD (N52K)

Necessary preliminary tasks:

- Remove front underbody protection **51 47 490 REMOVING AND INSTALLING / REPLACING FRONT ASSEMBLY UNDERSIDE PROTECTION**
- Remove rear underbody protection **51 47 491 REMOVING AND INSTALLING/REPLACING REAR UNDERBODY PROTECTION**
- Remove steering gear cover **51 71 ... REMOVING AND INSTALLING G/REPLACING TOP RIGHT STEERING GEAR COVER** at top right
- Remove complete exhaust system. See **18 00 020 Removing and Installing Complete Exhaust System (N52K)**

NOTE: The oxygen sensors are in danger of being damaged when the exhaust manifolds are removed and installed.

Remove control sensor **78 EMISSION CONTROL, OXYGEN** from cylinders 4 to 6

Remove monitor sensor from cylinders 4 to 6

Unscrew nuts.

Remove exhaust manifold (1).

Installation:

Clean sealing faces and replace seals.

Replace nuts

2008 BMW X5 48i

2007-08 ENGINE Exhaust System - Repair Instructions - X5 (6-Cylinder)

Tightening torque 18 40 1AZ, see **18 40 EXHAUST SYSTEM SUSPENSION** .